

CDF Disposal vs. Offsite Rail T and D Cost Comparison

CDF	CDF Capacity (CY) [1]	Cost to Construct and Cap CDF (\$) [1]	1.3 ton/CY Compaction				1.55 ton/CY Compaction				Offsite T&D Rate (\$/ton) [6]
			Filter Cake Weight (ton) [2]	CDF Construction Rate (\$/ton) [3]	CDF Fill Rate (\$/ton) [4]	CDF Construction and Fill Rate (\$/ton) [5]	Filter Cake Weight (ton) [2]	CDF Construction Rate (\$/ton) [3]	CDF Fill Rate (\$/ton)	CDF Construction and Fill Rate (\$/ton) [5]	
A	61,440	22,357,688	79,872	280	53	333	95,232	235	53	288	175
B	55,500	28,011,064	72,150	388	53	441	86,025	326	53	379	175
C	94,529	22,006,020	122,888	179	53	232	146,520	150	53	203	175
TOTALS	211,469	72,374,772	274,910	263	53	316	327,777	221	53	274	175

Notes:

[1] NAE calculations November 2007 (may not include latest wage determinations)

[2] assumes filter cake at 1.3-1.55 tons/cy (based on the estimated density range provided in Jacobs' 15 Nov 2007 Memorandum regarding Compaction Properties of Dredge Materials)

[3] does not include labor and equipment costs to fill CDFs.

[4] per JE 2/7/08 estimate for filling CDFs. See table "Cost to Place Cake into CDFs", page 2 of 2.

[5] includes cost to fill CDFs at \$53/ton; does not include costs for storm water management, truck decontamination, air monitoring, or long term O&M at each CDF.

[6] based on actual 2007 T&D rail cost (H&S)

Cost to Place Cake into CDFs

Trucking					
Truck	Days	Hours	Total Hours	Rate	Total
1	40	8	320	\$ 150.00	\$ 48,000.00
OT	40	2	80	\$ 225.00	\$ 18,000.00
TOTALS	80	10	400	\$ 375.00	\$ 66,000.00

Equipment to Place/Compact Cake			
Equipment	Days	Cost Per Day	Total
Dozer	45	\$ 714.45	\$ 32,150.25
Roller	45	\$ 306.50	\$ 13,792.50
Loader	45	\$ 674.30	\$ 30,343.50
Water Truck	45	\$ 165.00	\$ 7,425.00
TOTALS	180	\$ 1,860.25	\$ 83,711.25

Labor to Place/Compact Cake						
Labor	Days	Hours	# of Personnel	Total Hrs	Rate	Total
OE	45	8	4	1,440	\$ 91.30	\$ 131,472.00
Laborers	45	8	6	2,160	\$ 67.28	\$ 145,324.80
OE Overtime	45	4	4	720	\$ 136.95	\$ 98,604.00
Laborers Overtime	45	4	6	1,080	\$ 100.92	\$ 108,993.60
TOTALS	180	24	4	5,400	\$ 396.45	\$ 484,394.40

Note: This cost represents the cost to place cake in a CDF for one season (approximately 15,000 cy). It does not represent the full volume capacity of the CDFs.

Trucking	\$ 66,000.00
Equipment	\$ 83,711.25
Labor	\$ 484,394.40
TOTALS	\$ 634,105.65
SES FEE 7.5	\$ 47,557.92
JE FEE 7.25	\$ 49,420.61
SES G&A	\$ 14,971.13
TOTAL	\$ 746,055.31

\$48,588 per year for Groundwater Monitoring

per ton	\$ 49.74
per ton	\$ 3.25
total per ton	\$ 52.99